

ABSTRACT OF THE DISCLOSURE

Techniques for interacting with a client process on a mobile device connected to a network over a wireless link includes managing information at a mobile applications server executing on a platform connected to the network. The information includes device profile information about the mobile device. First data is received from an application. The first data describes graphical elements for display on the mobile device. It is determined whether the first data exceeds a capacity of the mobile device based on the device profile information. If it is determined that the first data exceeds the capacity, then a subset of the first data is formed that does not exceed the capacity of the mobile device. The subset of the first data is sent to the client process. If it is determined that an external converter does not convert using a particular format, then a first description of graphical elements is converted internally into a second description using the particular format. Second data including the second description is sent to the client process. These techniques allow network-based services to be made readily available to a wide range of mobile devices without having to explicitly program each application for providing one or more network-based services to support all forms of mobile devices.